

AMENDMENTS TO THE SPECIFICATION

Please enter the following changes to the specification.

At Page 7, amend the paragraph appearing at lines 5–21 (paragraph [0022] of the published specification), as follows:

-- Thus, according to one aspect of the present invention, there is provided a method for treating a skin portion of a subject inflicted with a dermatological lesion, which comprises producing a solution containing an effective amount of at least one protease; and directing the solution in the form of a stream into and out of contact with the skin portion such that the solution stream enzymatically and mechanically removes cells from the skin portion ~~removing cells from a skin portion of a subject inflicted with a dermatological lesion, comprising the steps of: (a) providing a first reservoir containing a solution containing an effective amount of at least one protease; (b) providing an applicator in fluid communication with the first reservoir, for restricting streaming of the protease solution, over, and in contact with, the skin portion; (c) receiving the protease solution from the first reservoir, via an inlet port of the applicator; (d) directing the streaming of the protease solution from the inlet port to a treatment zone of the skin portion, via a first tube structure of the applicator operatively connected to the inlet port, such that the streaming protease solution enzymatically and mechanically causes the removal of cells from the skin portion; (e) adjustably directing the streaming protease solution and the removed cells away from the treatment zone via a second tube structure positioned within the first tube structure, wherein a screw mechanism operatively connected to the second tube structure allows adjustment of height of opening of the second tube structure with respect to a skin-facing opening of the treatment zone; and (f) removing the streaming protease solution and the removed cells from the second tube structure, via an outlet port operatively connected to the second tube structure, thereby removing the cells from the skin portion of the subject. - -~~

Page 9, amend the paragraph at lines 16–32 (paragraph [0051] of the published specification, as follows:

- - According to another aspect of the present invention, there is provided an applicator for applying a solution containing an effective amount of at least one protease to a skin portion of a subject for treatment thereof, the applicator comprising: a body member having an open end defining an annular surface to be brought into contact with the skin portion to

thereby define a confined space therewith; at least one inlet into the body member communicating with the confined space via a first passageway for applying the solution to the skin portion within the confined space; at least one outlet from the body member communicating with the confined space via a second passageway through the body member for outletting therefrom the solution after applied to the surface of the object within the confined space; and a source of the protease solution to be inletted via the inlet and to be streamed into and out of contact with the skin portion of the subject for enzymatically and mechanically removing cells therefrom. In particular, this applicator is used for removing cells from a skin portion of a subject, and comprises comprising: (a) an inlet port operatively connectable to a first reservoir containing a solution containing an effective amount of at least one protease, for being in fluid communication with the first reservoir, for receiving the protease solution from the first reservoir; (b) a first tube structure operatively connected to the inlet port for directing streaming of the protease solution from the inlet port to a treatment zone of the skin portion, such that the streaming protease solution streams over, and in contact with, the skin portion, for enzymatically and mechanically causing the removal of cells from the skin portion; (c) a second tube structure positioned within the first tube structure for adjustably directing the streaming protease solution and the removed cells away from the treatment zone, wherein a screw mechanism operatively connected to the second tube structure allows adjustment of height of opening of the second tube structure with respect to a skin-facing opening of the treatment zone; and (d) an outlet port operatively connected to the second tube structure for removing the streaming protease solution and the removed cells from the second tube structure, thereby removing the cells from the skin portion of the subject.- -

Page 10, amend the paragraph at lines 1–3 (paragraph [0052] of the published specification), as follows:

- -According to further features in the described preferred embodiment, the body member is a housing having an open end mounting a head; and the flexible plastic material is in the form of a flexible skirt of plastic material carried by the head and formed with an annular rim to contact the surface of the object to be treated; the head being threadedly mounted on the housing to permit axial adjustment of the distance between the annular rim of the skirt, and at

least one of the passageways, to accommodate irregularities in the surface of the object to be treated ~~the applicator, a pump is operatively connected between the first reservoir and the inlet port for effecting the streaming of the protease solution.~~ - -

Page 10, amend the paragraph at lines 4–6 (paragraph [0053] of the published specification), as follows:

- - According to further features in preferred embodiments of the invention described below, ~~[[for]]~~ the applicator is used for treating the skin of a subject infected with a dermatological lesion. In this application of the invention, the applicator further includes a reservoir holding a supply of a protease solution to be inletted via the inlet port and to be streamed into and out of contact with the skin of the subject for enzymatically and mechanically removing cells from the skin. A pump may be operatively connected between the first reservoir and the inlet port for providing this pressure and effecting the streaming of the protease solution from the first reservoir to the inlet port. Alternatively, the pressure and streaming may be effected by gravitation. - -

Page 37, amend the paragraph at lines 8-20 (paragraph [0146] of the published specification), as follows:

- - ~~Briefly, r~~Reference is now made to FIG. 10, which is a cross sectional view of an exemplary specific preferred embodiment of applicator 24 included in the device of the present invention, which is applicable for practicing the present invention on skin. Applicator 24 used in this experiment includes a body member in the form of housing 100 having an inlet 102 and an outlet 104. Fluid entering through inlet 102 is directed via a first tube structure or conduit 106 to a treatment zone 107 defined by a somewhat conical silicon structure or skirt 114 having an out-turned rim defining a skin-facing opening 108, 9 mm in diameter. A second tube stature structure or conduit 110 positioned within first tube structure 106 is used to direct fluid from treatment zone 107 to outlet 104. An O-ring 112 is used to restrict flow to the intended direction within first tube structure 106. As seen in FIG.10, silicon elastomer skirt 114 is fixed to a head 116 threadably mounted on the open end of housing 100, and is of decreasing diameter towards its out-turned rim. This head or [[A]] screw mechanism 116 allows adjustment of the height of opening 118 of second tube structure 110 with respect to skin-facing opening 108 of treatment

zone 107. Head 116 may be threaded within the open end of housing 100 to permit axial adjustment of the distance between the skin-facing opening 108 of skirt 114, and the open end of conduit 118 communicating with the outlet 104. The arrangement is such that the out-turned rim of the silicon skirt 114, when brought into contact with the skin to be treated defines a confined space with that surface, with the annular space between silicon skirt 114 of housing 100 and conduit 110 defining a first passageway between that confined space and inlet port 102, and with the interior of conduit 110 defining a second passageway between the confined space and the outlet port 114. The annular skirt 114 enables the open end of the housing to conform to irregularities in the surface of the skin to be treated, and the threaded mounting of head 116 enables the open end of the housing to accommodate irregularities in the surface of the skin to be treated. Preferably, a pump, as illustratively described hereinabove, is used to direct fluid from a reservoir into inlet 102. A drainage tube is used to drain fluid from outlet 104. - -